

B2 3. (Amended) The nucleic acid molecule of claim 2, wherein the gene comprises one or more exons that form an open reading frame having a sequence that encodes a polypeptide approximately 578 amino acids in length.

B3 5. (Amended) The nucleic acid of molecule of claim 3, wherein the open reading frame comprises a sequence encoding an amino acid sequence at least 70% identical to a cyclin domain comprising amino acids 361 through 521 of SEQ ID NO:2.

B4 8. (Amended) The nucleic acid molecule of claim 6, which comprises an open reading frame having the sequence of the one or more exons of SEQ ID NO:1.

B5 14. (Amended) An isolated nucleic acid molecule consisting essentially of the sequence of an open reading frame of a gene located on *Arabidopsis* chromosome 1, the open reading frame having a sequence selected from the group consisting of:

- a) a sequence comprising the exons of SEQ ID NO:1;
- b) a sequence that is at least 80% identical to the exons of SEQ ID NO:1;
- c) a sequence encoding a polypeptide having SEQ ID NO:2;
- d) a sequence encoding a polypeptide having a at least 50% identity to SEQ ID NO:2;
- e) a sequence encoding a polypeptide comprising a cyclin domain having at least 70% identity to the cyclin domain comprising amino acids 361 through 521 of SEQ ID NO:2; and
- f) a nucleotide sequence that hybridizes with SEQ ID NO:1 under stringent conditions, wherein stringent conditions are hybridizing for at least 6 hours at 37°C in 5X SSC, 5X Denhardt's reagent, 1.0% SDS, 100 µg/ml denatured fragmented salmon sperm DNA, 0.05% sodium pyrophosphate; and washing once for 5 minutes at room temperature in 2X SSC and 1% SDS, once for 15 minutes at room temperature in 2X SSC and 0.1% SDS, once for 30 minutes at 37°C in 1X SSC and 1% SDS and four times for 30 minutes each at 42°C in 1X SSC and 1% SDS.